## **SECTION II—CLAIMS**

1. (Previously Presented) An apparatus comprising:

a die mounted on a substrate, the die being connected to the substrate by a plurality of wires; and

a mold cap encapsulating the die and the plurality of wires, the mold cap comprising an electrically insulating portion encapsulating substantially all the wires and the entire die, and a thermally conductive portion encapsulating substantially all the electrically insulating portion.

- 2. (Original) The apparatus of claim 1 wherein the die comprises an integrated circuit.
- 3. (Original) The apparatus of claim 1 wherein the electrically insulating material comprises a curable resin, a crosslinker, a catalyst, and a reinforcing filler.
- 4. (Original) The apparatus of claim 3 wherein the reinforcing filler comprises silica, alumina, zinc oxide, talc, or combinations thereof.
- 5. (Original) The apparatus of claim 1 wherein the thermally conductive material comprises a curable resin, a crosslinker, a catalyst, and a metal filler.
- 6. (Original) The apparatus of claim 5 wherein the metal filler comprises aluminum, silver, copper, gold, or combinations or alloys thereof.
- 7.-8. (Canceled)
- 9. (Original) The apparatus of claim 1, further comprising a heat dissipation device attached to, and in thermal contact with, the thermally conductive material.
- 10. (Previously Presented) An apparatus comprising:

a stack of dies mounted on a substrate, the stack including a first die attached to the substrate and at least one additional die stacked thereon;

a plurality of wires connecting at least one of the stacked dies to the substrate or to another die in the stack; and

a mold cap encapsulating the wires and the stacked dies, the mold cap comprising an electrically insulating portion encapsulating substantially all of the wires and the entire stack of dies, and a thermally conductive portion encapsulating substantially all the electrically insulating portion.

- 11. (Original) The apparatus of claim 10 wherein at least one of the stacked dies comprises an integrated circuit.
- 12. (Original) The apparatus of claim 10 wherein the first die is flip-chip bonded to the substrate.
- 13. (Original) The apparatus of claim 10 wherein the electrically insulating material comprises a curable resin, a crosslinker, a catalyst, and a reinforcing filler.
- 14. (Original) The apparatus of claim 10 wherein the reinforcing filler comprises silica, alumina, zinc oxide, tale, or combinations thereof.
- 15. (Original) The apparatus of claim 10 wherein the resin comprises a curable resin, a crosslinker, a catalyst, and a metal filler.
- 16. (Original) The apparatus of claim 15 wherein the metal filler comprises aluminum, silver, copper, gold, or combinations or alloys thereof.

## 17.-18. (Canceled)

19. (Original) The apparatus of claim 10, further comprising a heat dissipation device attached to, and in thermal contact with, the thermally conductive material.

20.-37. (Canceled)

38.-51. (Canceled)